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(54) A method and a device for recognising speech

(57) According to the invention, speech recognition can be limited to a smaller number making use of commands (16, 17) given by a user. By means of a method and device, according to the invention, it is also possible to activate a speech recognition device by making use, in the activation, of an existing keyboard or a touch-sensitive screen of the device. A method, according to the invention, provides the user with a logical way to activate the speech recognition device in the device simultaneously providing an improved capacity of the speech recognition device. According to the invention, it is also possible

to carry out the speech recognition process by making use of commands given by the user irrespective of how the speech recognition device itself is activated. According to an embodiment of the invention, the device comprises a touch-sensitive screen or surface, in which case the information about a single letter or several letters written on the screen is transmitted to the speech recognition device, whereupon speech recognition is limited to words, wherein the letters in question occur. Speech recognition is most preferably limited to a name beginning with the letter written on the touch screen by the user.

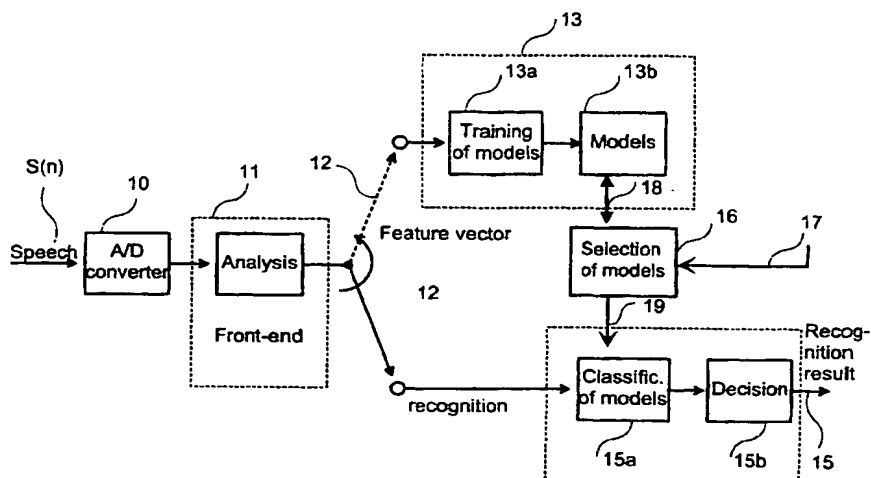


Figure 2



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# EUROPEAN SEARCH REPORT

Application Number  
EP 99 66 0048

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 6)
Y	EP 0 718 823 A (SIEMENS AG) 26 June 1996 (1996-06-26) * page 2, column 2, line 19 - line 31 * * page 3, column 3, line 56 - column 4, line 54; figure *	1-5,7-9	G10L3/00
Y	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 03, 29 March 1996 (1996-03-29) & JP 07 311656 A (TOSHIBA CORP), 28 November 1995 (1995-11-28) * abstract *	1-5,7-9	
Y	"INTEGRATED AUDIO-GRAPHICS USER INTERFACE" IBM TECHNICAL DISCLOSURE BULLETIN, US, IBM CORP. NEW YORK, vol. 33, no. 11, page 368-371 XP000110434 ISSN: 0018-8689 * the whole document *	1-5,7-9	
Y	EP 0 661 688 A (IBM) 5 July 1995 (1995-07-05) * page 4, column 6, line 5 - line 31; claim 1 *	2	TECHNICAL FIELDS SEARCHED (Int. Cl. 6) G10L H04M
Y	US 5 425 128 A (MORRISON ROBERT L) 13 June 1995 (1995-06-13) * column 6, line 1 - line 28 *	4,8	
A	US 5 544 654 A (MURPHY SEAN ET AL) 13 August 1996 (1996-08-13) * column 3, line 24 - line 58 *	1,2,7	
		-/-	
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>12 November 1999</b>	Examiner <b>Wanzeele, R</b>
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

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# EUROPEAN SEARCH REPORT

Application Number  
EP 99 66 0048

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 12, 26 December 1996 (1996-12-26) & JP 08 202386 A (SONY CORP), 9 August 1996 (1996-08-09) * abstract *	1,2,7	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>12 November 1999</b>	Examiner <b>Wanzeele, R</b>
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>&amp; : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 66 0048

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
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12-11-1999

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0718823	A	26-06-1996	NONE	
JP 07311656	A	28-11-1995	NONE	
EP 0661688	A	05-07-1995	US 5524169 A JP 7210189 A	04-06-1996 11-08-1995
US 5425128	A	13-06-1995	NONE	
US 5544654	A	13-08-1996	NONE	
JP 08202386	A	09-08-1996	NONE	

EPO FORM P469

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82